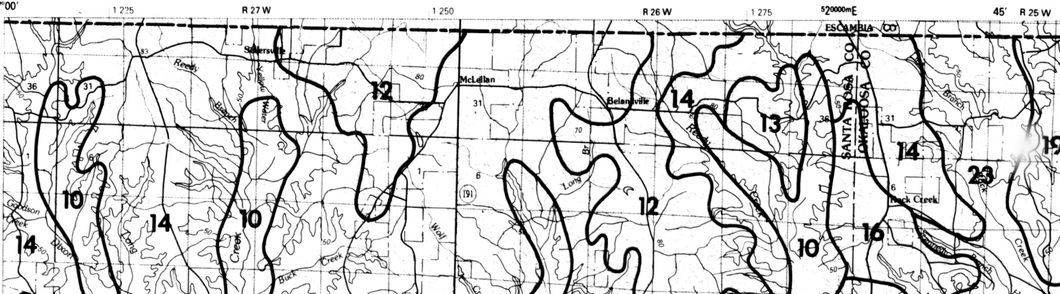
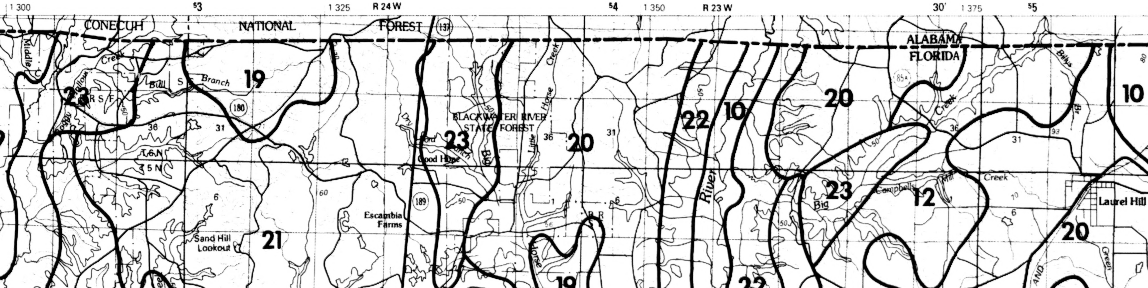
MICROCOPY RESOLUTION TEST CHART
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)
2.5
2.2
2.0
1.8
1.6
2.8
3.2
3.6
4.0
4.5
5.0
5.6
6.3
1.0
1.1
1.25
1.4

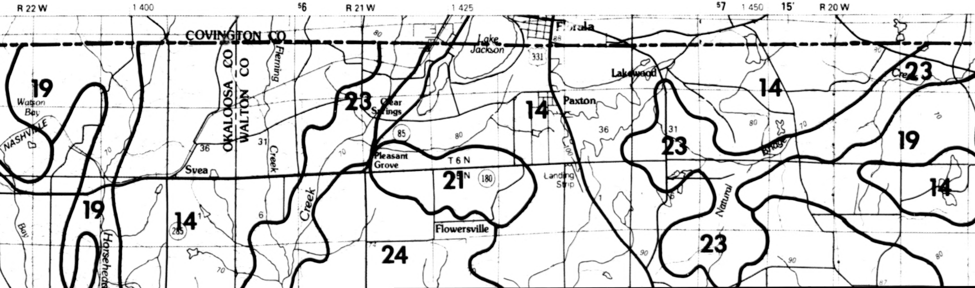
87
31°00'

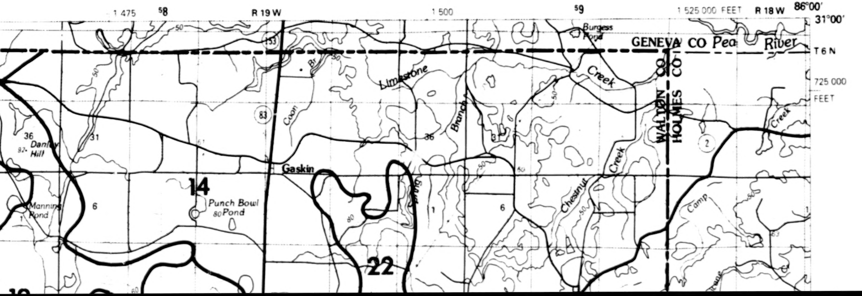
T 6 N

725


°00′
1 225
R 27 W
1 250
R 26 W
1 275
5 20000m E
45′
R 25 W
ESCAMBIA CO
SANTA ROSA CO
OKALOOSA CO
Sellersville
McLellan
Belandville
Rock Creek
Reedy Branch
Yellow Water Cr
Wolf
Long Br
Reedy Creek
Goodson Creek
Dixon
Long
Creek
Buck Creek
Branch
Creek
191
83
80
70
50
36
31
6
1
10
12
13
14
16
23
19


1 300
53
1 325
R 24 W
54
1 350
R 23 W
30'
1 375
55
CONECUH
NATIONAL
FOREST
137
ALABAMA
FLORIDA
Middle
Creek
Bull
Branch
19
180
B R S F
23
36
31
T 6 N
T 5 N
6
Sand Hill
Lookout
21
60
Escambia
Farms
189
Dry
Good Hope
BLACKWATER RIVER
STATE FOREST
Big
Little
Horse
Creek
20
22
10
River
Big
Campbells
Mill
Creek
12
85A
Billys
Br
31
93
36
Laurel Hill
10
20
Green
19
22


R 22 W
1 400
56
R 21 W
1 425
57
1 450
15'
R 20 W
COVINGTON CO
OKALOOSA CO
WALTON CO
Florala
Lake Jackson
331
88
Lakewood
Paxton
Watson Bay
NASHVILLE
Fleming
Creek
Clear Springs
85
Pleasant Grove
Svea
T 6 N
180
Landing Strip
Flowersville
Natural
Bridge
Horseshoe
Bay
285
36
31
6
1
70
80
90
19
23
14
21
24


1 475
58
R 19 W
1 500
59
1 525 000 FEET
R 18 W
86°00'
31°00'
T 6 N
725 000
FEET
Burgess Pond
GENEVA CO
Pea River
Limestone
Br
Creek
Coon
Branch
WALTON CO
HOLMES CO
Chestnut
Creek
Camp
Creek
Gaskin
Punch Bowl Pond
Manning Pond
Danley Hill
14
22
153
83
2
36
31
36
31
6
1
6
1
50
80
60

MICROCOPY RESOLUTION TEST CHART
NBS 1010a
(ANSI and ISO TEST CHART No. 2)
1.0 1.1 1.25 1.4 1.6 1.8 2.0 2.2 2.5 2.8 3.2 3.6 4.0 4.5 5.0

AUG 14 '86 I 49.89:82/47-1/map C3

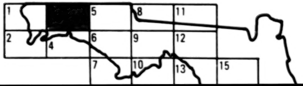
MMS 85-0011
FWS/OBS-82/47.1

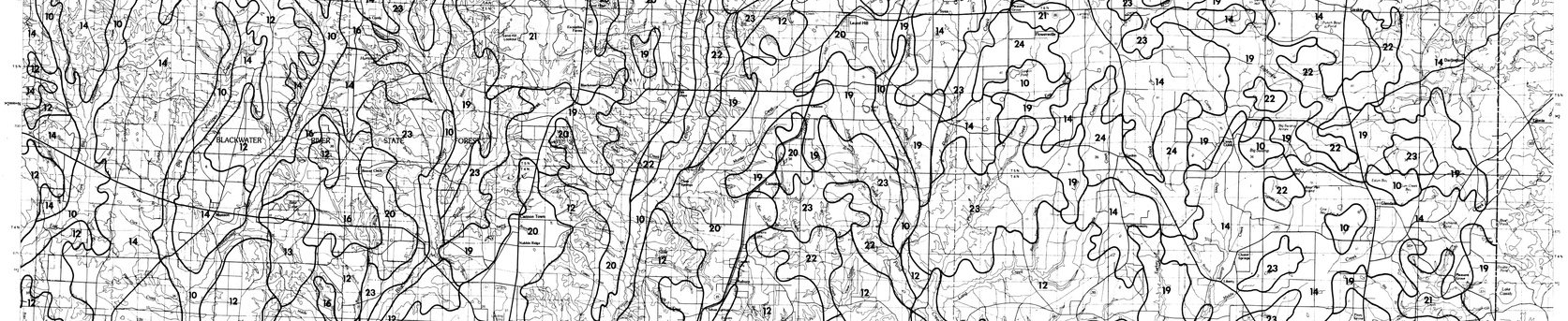
MAP C3

Crestview

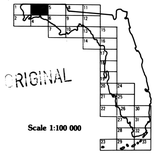
FLORIDA ECOLOGICAL ATLAS

SOILS AND LANDFORMS


1
2
4
5
6
7
8
9
10
11
12
13
15



SOILS AND LANDFORMS



ORIGINAL

Scale 1:100 000

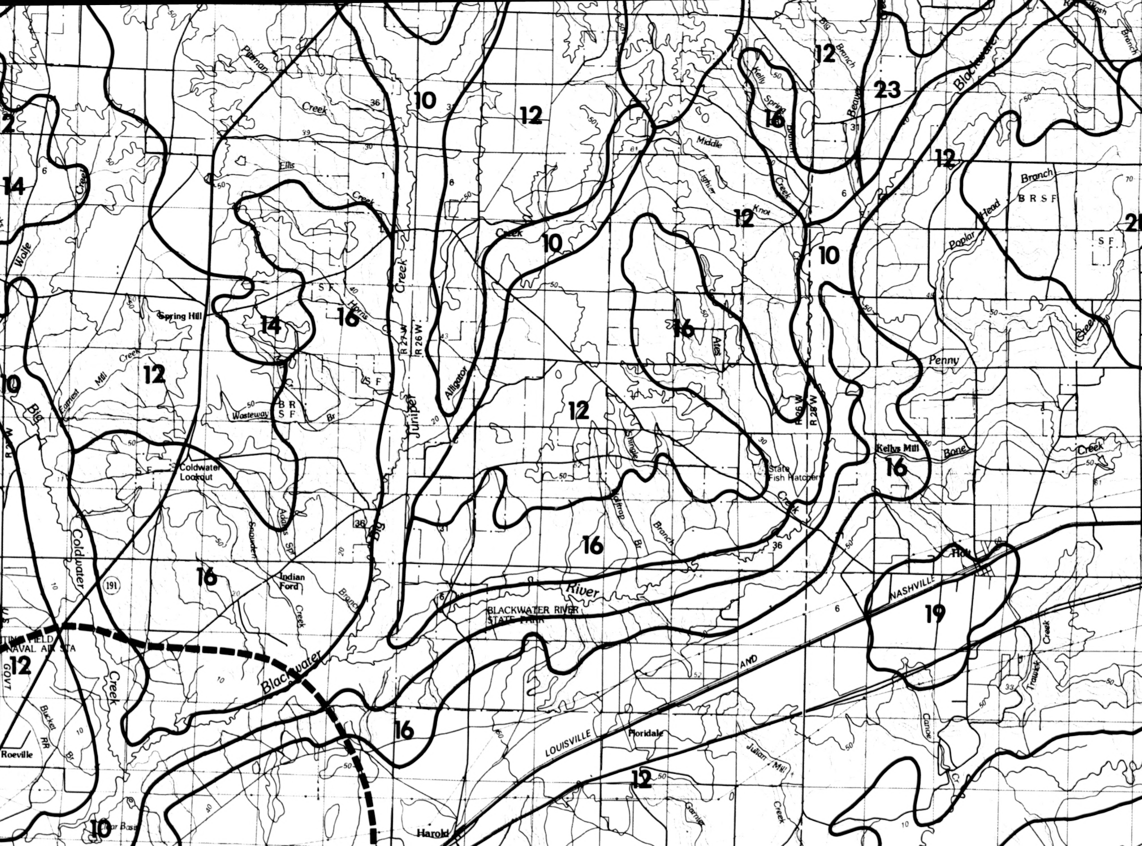
TOPICAL MAPS IN THIS ATLAS:

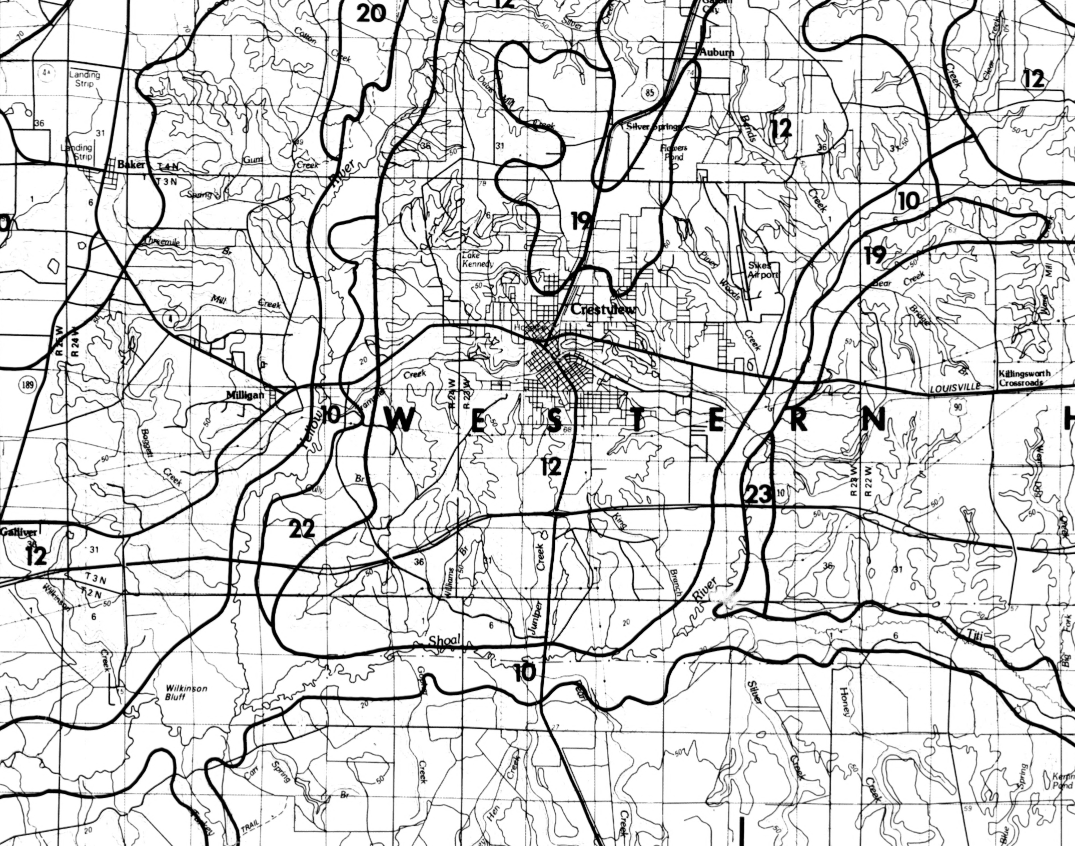
A. BIOLOGICAL RESOURCES
B. SOCIOECONOMIC FEATURES
C. SOILS AND LANDFORMS
D. OIL, GAS AND MINERALS
E. HYDROLOGY AND CLIMATOLOGY

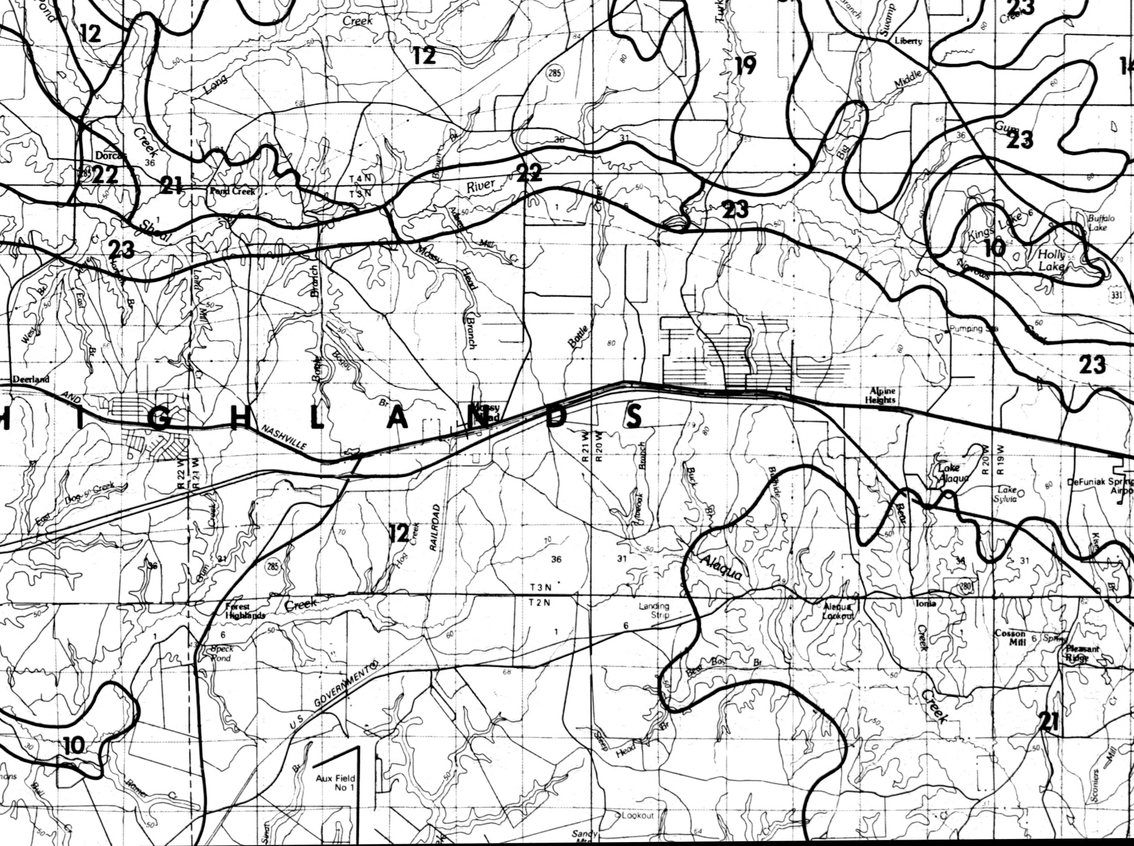
1984

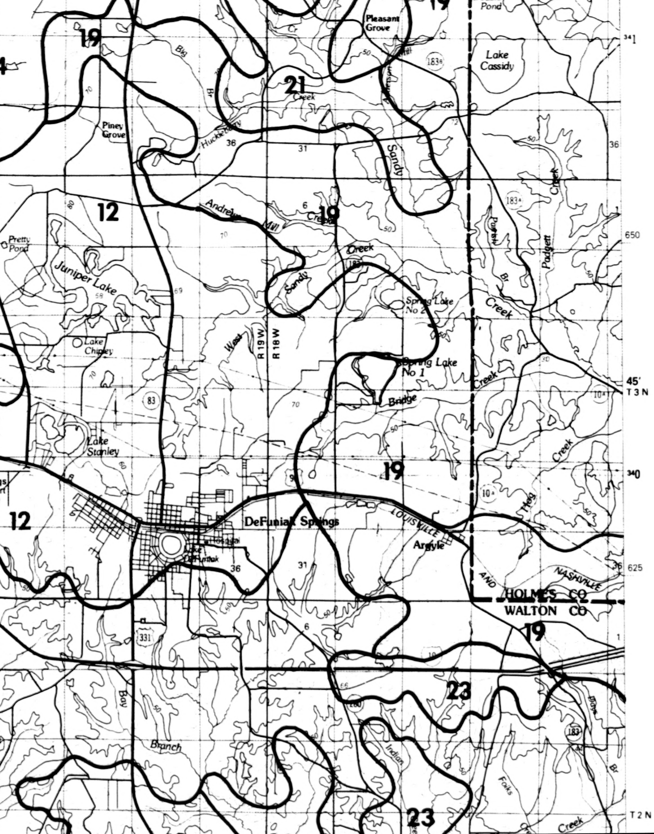
Produced by U.S. Fish and Wildlife
Service and Minerals Management Service

341
36
Bass
1
20
650
T 3 N
45′
R 28 W
50
340
36
1
625
T 2 N


Pittman Creek
Ellis Creek
Horns Creek
Big Creek
Juniper Creek
Alligator Creek
Kelly Spring Branch
Big Branch
Beaver Creek
Middle Creek
Lightner Creek
Knot Creek
Poplar Head Branch
Penny
Blackwater
Blackwater River
Coldwater Creek
Wolfe Creek
Earnest Mill Creek
Big Coldwater
Wasteway Br
Adams Spr
Snowden
Indian Ford
Branch Creek
Shingle Creek
Deadfall Branch
Ates
Bone Creek
Kellys Mill
State Fish Hatchery
Spring Hill
Coldwater Lookout
BLACKWATER RIVER STATE PARK
NASHVILLE
LOUISVILLE AND NASHVILLE RR
Holt
Floridale
Harold
Roeville
Bucket Br
Clear Basin
Trawick Creek
Canoe Cr
Julian Mill Creek
Garnier Creek
WHITING FIELD NAVAL AIR STA
GOVT
R 27 W
R 26 W
R 25 W
S F
B R S F
B R S F
191
36
6
10
12
14
16
19
21
23


20
12
Cotton Creek
Silver Creek
Garden City
Auburn
85
12
4A
Landing Strip
Landing Strip
Baker
T 4 N
T 3 N
Gum Creek
Spring
River
Dobe Mill Creek
Silver Springs
Flowers Pond
Bends Creek
12
Creek
10
19
Threemile Br
Mill Creek
Lake Kennedy
Piney Woods Creek
Sikes Airport
19
Bear Creek
Bridge Creek
Mill Creek
Crestview
Hospital
R 25 W
R 24 W
189
Milligan
Yellow River
10
Creek
R 24 W
R 23 W
W E S T E R N H
Killingsworth Crossroads
LOUISVILLE
90
Boggett Creek
Gully Br
12
22
23
R 23 W
R 22 W
King Branch
Galliver
12
T 3 N
T 2 N
Wilkinson Creek
Williams Br
Juniper Creek
River
Shoal
10
Titi
Big Fork
Wilkinson Bluff
Pearl
Silver Creek
Honey Creek
Carr Spring Br
Hen Creek
Creek
Creek
TRAIL
Blue Spring
Kennedy Pond


HIGHLANDS
12
12
12
19
22
22
21
23
23
23
23
23
10
10
21
Dorcas
Pond Creek
Deerland
Liberty
Alpine Heights
Mossy Head
Forest Highlands
Speck Pond
Landing Strip
Alaqua Lookout
Ionia
Cosson Mill
Pleasant Ridge
Lake Alaqua
Lake Sylvia
DeFuniak Springs Airport
Kings Lake
Holly Lake
Buffalo Lake
Pumping Sta
Aux Field No 1
Lookout
Sandy Mtn
Long Creek
Shoal River
Middle Swamp
Gum Creek
Big Br
Mossy Head Branch
Bottle Creek
Alaqua Creek
Hog Creek
Gum Creek
East Dog Creek
Sconiers Mill
Steep Head Br
Bear Bay Br
Buck Br
Buckhide Cr
Live Oak Branch
Laird Mill Cr
West Br
East Br
Bogue Br
Mill Cr
Narrows
Creek
Turkey
Branch
Pond
Bull
Barnes Cr
Sand Br
Bear Cr
Kings Br
LOUISVILLE AND NASHVILLE RAILROAD
U S GOVERNMENT
T 4 N
T 3 N
T 3 N
T 2 N
R 22 W
R 21 W
R 21 W
R 20 W
R 20 W
R 19 W
285
285
280
331
36
31
36
31
1
6
1
6
36
31
36
31
1
6
1
6
50
60
68
70
80
84
30


Pleasant Grove
Pond
Lake Cassidy
19
21
12
23
Big Br
Huckleberry
Creek
Sandy
Andrew Mill Creek
Piney Grove
Pretty Pond
Juniper Lake
Lake Chipley
Lake Stanley
West
R 19 W
R 18 W
Spring Lake No 2
Spring Lake No 1
Bridge
Parrish Br
Padgett Creek
Creek
Hog Creek
DeFuniak Springs
Lake DeFuniak
LOUISVILLE AND NASHVILLE
Argyle
HOLMES CO
WALTON CO
Bay Branch
Indian
Folks Creek
183
83
331
10
36
31
6
341
650
45′
T 3 N
340
625
T 2 N

1984

Da

Produced by U.S. Fish and Wildlife Service and Minerals Management Service

Projection and 10,000 meter grid, zone 17: Universal Transverse Mercator
25,000-foot grid ticks based on Florida coordinate system, west zone

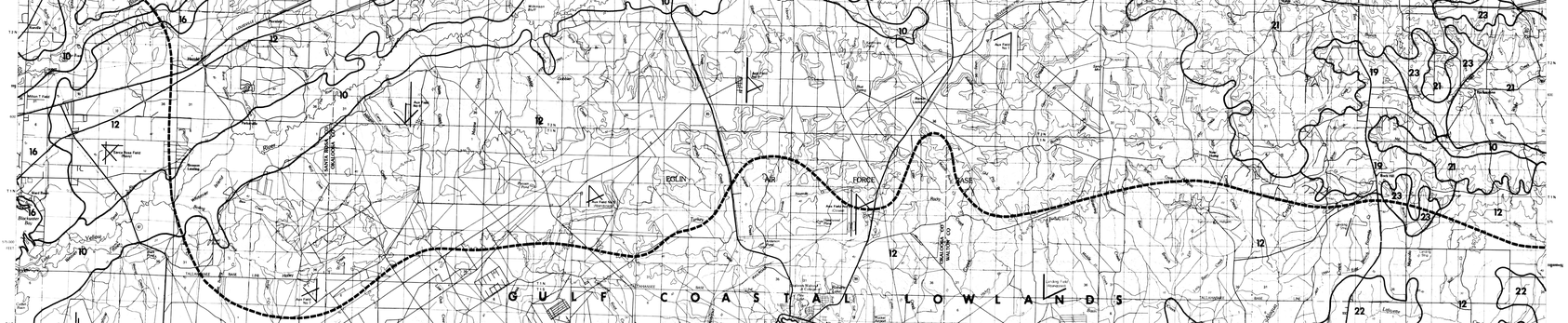
Overlay material compiled in 1983 from latest available data obtained from Federal, State and Local government agencies and other sources.

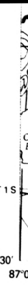
MAJOR SURFACE LANDFORMS

Western Highlands
Escambia Valley
Gulf Coastal Lowlands
Gulf Barrier Chain
Marianna Lowlands
New Hope Ridge
Greenhead Slope
Fountain Slope
Grand Ridge
Northern Highlands
Coastal Swamps
Brooksville Ridge
Western Valley

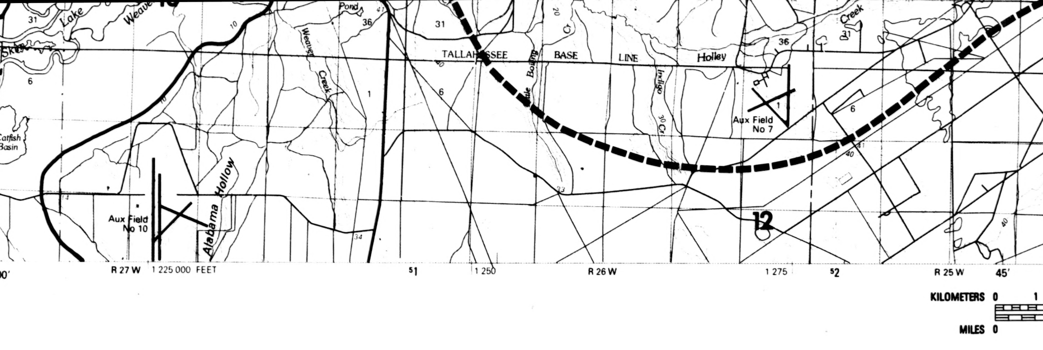
SOIL ASSOCIATIONS

1. Lakeland-Eustis-Lakewood Association
2. Lakeland, Ruston, and Norfolk-Sunsweet, Carnegie and Cuthbert Association
3. Red Bay-Blakely Association
4. Tifton-Carnegie-Faceville Association
5. Norfolk-Ruston-Savannah Association
6. Tifton-Irvington-Lynchburg Association
7. Klej-Leon Association
8. Huckabee-Kalmia-Izagota Association
9. Coastal Dune Land and Beach-Tidal Marsh Association
10. Plummer-Rutlege-Alluvial Land-Fresh Water Swamp-Dorovan-Pamlico Association
11. Lakeland-Paola-Kureb-St. Lucie-Rimini Association
12. Lakeland-Troup Association


EGLIN
AIR
FORCE
BASE
GULF COASTAL LOWLANDS


T1S
30°30′
87°0

MICROCOPY RESOLUTION TEST CHART
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)
1.0
1.1
1.25
1.4
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
4.5
5.0
5.6


Lake
Weaver
Pond
Weaver Creek
TALLAHASSEE BASE LINE
Boiling Cr
Indigo Cr
Holley
Creek
Catfish Basin
Aux Field No 10
Alabama Hollow
Aux Field No 7
12
R 27 W
1 225 000 FEET
51
1 250
R 26 W
1 275
52
R 25 W
45′
KILOMETERS 0 1
MILES 0

THE FLORIDA ECOLOGICAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES, NATIONAL COASTAL ECOSYSTEMS TEAM (FWS/OBS - 82/47) AND THE MINERALS MANAGEMENT SERVICE FOR COASTAL PLANNERS, DECISION MAKERS, AND THE GENERAL PUBLIC, TO DETERMINE AND EVALUATE CHANGE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS, AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY. THE STUDY AREA INCLUDES THE COASTAL COUNTIES: ESCAMBIA, SANTA ROSA, OKALOOSA, WALTON, WASHINGTON, BAY, CALHOUN, GULF, FRANKLIN, WAKULLA, JEFFERSON, TAYLOR, DIXIE, LEVY, CITRUS AND HERNANDO, AND EXTENDS OFFSHORE APPROXIMATELY 10 MILES. THERE IS NO ATTEMPT, IN THE DESIGN OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS OF PROPRIETARY JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

PRIMARY SOURCES OF MAPPED INFORMATION:

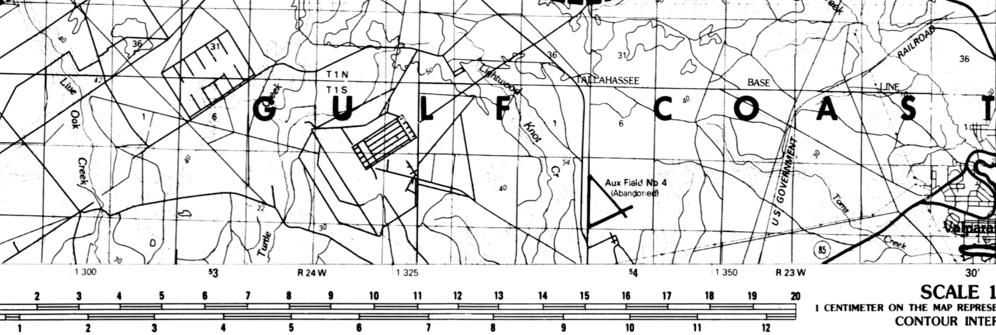
LANDFORMS: Physiographic Map of Florida, State Bureau of Geology, 1980.

SOILS: General Soils Atlas of Florida, Division of State Planning, 1975. General Soils Atlas of Florida, U.S. Soil Conservation Service, 1982.

ACTIVE DUNES: Black and White Aerial Photography, 1:80,000 Scale, Mark Hurd Aerial Surveys Inc., 1980. Topographic Maps, 1:24,000 Scale, U.S. Geological Survey, various dates.

GEOLOGIC FAULTS: Map of Escambia and Santa Rosa Counties Showing Contours on top of the Lower Limestone of the Floridan Aquifer, State Bureau of Geology, 1965.

FOR COMPLETE REFERENCES SEE MAP NARRATIVE


GULF COAST
T1N
T1S
TALLAHASSEE BASE LINE
RAILROAD
Live Oak Creek
Lightwood Knot Cr
Turtle
Creek
Aux Field No 4
(Abandoned)
U S GOVERNMENT
Toms Creek
85
Valparai
1 300
53
R 24 W
1 325
54
1 350
R 23 W
30′
36
31
6
1
40
30
50
42
22
34
D
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
1 2 3 4 5 6 7 8 9 10 11 12
SCALE 1
1 CENTIMETER ON THE MAP REPRESE
CONTOUR INTER

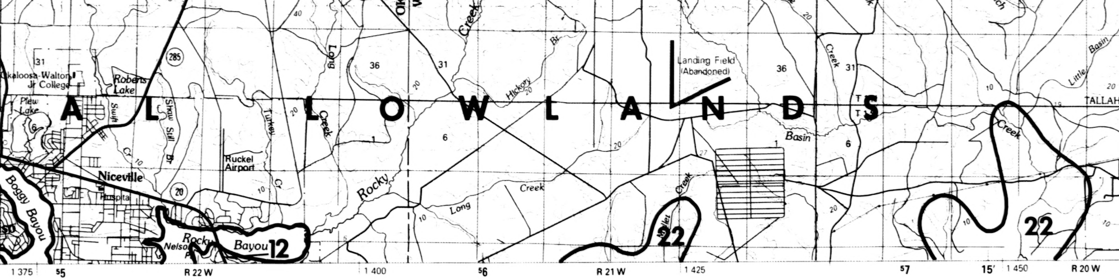
10. **Plummer-Rutlege-Alluvial Land-Fresh Water Swamp-Dorovan-Pamlico Association: Nearly level, poorly drained soils with a thick surface layer overlying a loamy subsoil and very poorly drained soils that are sandy throughout.**

12. **Lakeland-Troup Association: Nearly level to steep, excessively drained soils, sandy throughout, and well drained soils with very thick sandy layers over loamy subsoil.**

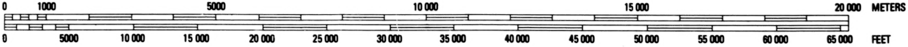
13. **Troup-Orangeburg Association: Highly dissected nearly level to steep, well drained, sandy soils with loamy subsoils.**

14. **Dothan-Orangeburg Association: Nearly level to sloping, well drained, sandy soils with loamy subsoils.**

16. **Chipley-Scranton Association: Nearly level to gently sloping, moderately well to somewhat poorly drained sandy soils.**


LOWLANDS
Okaloosa-Walton Jr College
Roberts Lake
Plew Lake
Swift Cr
Shaw Still Br
Ruckel Airport
Niceville
Hospital
Boggy Bayou
Rocky Bayou
Nelson
Long Creek
Turkey Cr
Rocky
Long Creek
Hickory Br
Landing Field (Abandoned)
Basin
Mullet Creek
Little Basin
Creek
TALLAH
285
20
12
22
22
1 375
55
R 22 W
1 400
56
R 21 W
1 425
57
15′
1 450
R 20 W

:100 000
ENTS 1 KILOMETER ON THE GROUND
RVAL 5 METERS


0
1000
5000
10 000
15 000
20 000
METERS
0
5000
10 000
15 000
20 000
25 000
30 000
35 000
40 000
45 000
50 000
55 000
60 000
65 000
FEET

19. **Fuquay-Lucy-Troup Association:** Nearly level to sloping, well drained soils with sandy layers over loamy subsoil.

20. **Dothan-Orangeburg-Tifton Association:** Nearly level to steep, well drained sandy soils with loamy subsoil.

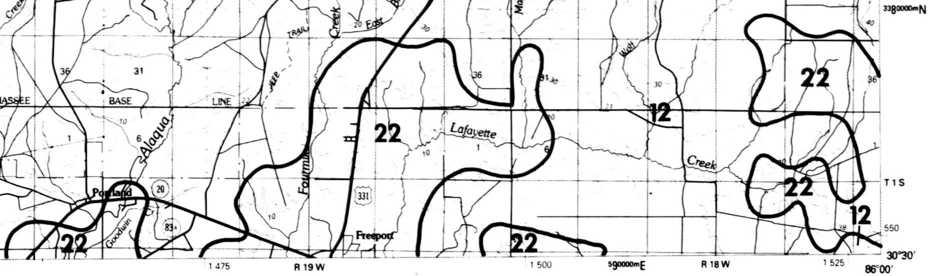
21. **Lakeland-Faceville Association:** Sloping to steep, excessively drained soils, sandy throughout, and well drained, loamy soils with clayey subsoil.

22. **Chipley-Albany-Leon Association:** Nearly level to gently sloping, moderately well drained soils, sandy throughout; somewhat poorly drained soils with very thick sandy layers over loamy subsoils, and poorly drained sandy soils with weakly cemented sandy subsoil.

23. **Ardilla-Leefield-Stilson Association:** Nearly level to gently sloping, somewhat poorly drained and moderately well drained sandy soils with loamy subsoil.

24. **Tifton-Faceville-Greenville Association:** Nearly level to sloping, well drained loamy soils with loamy subsoil.

E=__ft/yr ├‐‐‐‐‐‐‐┤	BEACH EROSION AREA (Period of Record: Univ. of West Florida, 1981)
A=__ft/yr ├───────┤	BEACH ACCRETION AREA (Period of Recor Univ. of West Florida, 1981)
■	GULF BARRIER ISLAND
Ⓓ	ACTIVE DUNE AREA


Creek
TRAIL
Creek
20 East
30
Ma
3380000mN
40
22
36
31
36
36
31 30
Wolf
30
31
12
ASSEE
BASE
LINE
22
10
Alaqua
JEEP
22
Lafayette
20
1
6
10
1
6
1
Creek
20
22
T 1 S
12
550
30°30′
Portland
20
Fourmile
331
Goodwin
Cr
83A
10
Freeport
22
22
38
1 475
R 19 W
1 500
590000mE
R 18 W
1 525
86°00′

1957-1981;

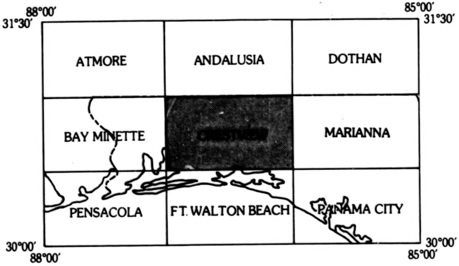
rd: 1957-1981;

NORMAL FAULT
(Showing relative vertical movement, U, up, and D, down)

SUB-SURFACE NORMAL FAULT
(Showing relative vertical movement, U, up, and D, down)

STUDY AREA BOUNDARY

▮▮▮▮▮▮▮▮▮▮▮▮▮	Offshore
━━━ ━ ━━━ ━	Inland (County)
━━━ ━ ━ ━━━	Inland (State)


88°00′
31°30′
85°00′
31°30′
ATMORE
ANDALUSIA
DOTHAN
BAY MINETTE
MARIANNA
PENSACOLA
FT. WALTON BEACH
PANAMA CITY
30°00′
88°00′
30°00′
85°00′

50. Manatee, var.-Felda, Var.-Copeland, Var. Association
51. Fresh Water Swamp, Shallow to Limestone Association
52. Salt Water Marsh and Swamp-Coastal Dunes Association
53. Alpin-Blanton Association
54. Chipley-Blanton-Swamp Association
55. Adamsville, var.-Chiefland-Blanton Association
56. Candler-Apopka Association
57. Jonesville-Chiefland-Archer Association
58. Arredondo-Gainesville Association
59. Hernando-Archer-Chiefland Association
60. Sparr-Lochloosa-Tavares Association
61. Adamsville-Osier Association
62. Bushnell-Wabasso-Felda Association
63. Blichton-Flemington-Kanapaha Association
64. Leon-Mascotte-Surrency Association
65. Lynne-Pomona-Pompano Association
66. Candler-Paola-Tavares Association
67. Candler-Adamsville-Pompano Association
68. Arredondo-Kendrick Association
69. Broward-Boca Association
70. Panasoffkee-Bushnell Association
71. Myakka-Basinger Association
72. Meggett, var.-Pompano Association
73. Terra Ceia-Placid Association
74. Arredondo-Sparr-Kendrick Association
75. Candler-Lake Association
76. Masaryk Association
77. Nobleton-Blichton-Flemington Association
78. EauGallie-Wabasso-Basinger Association
79. Paisley-Floridana-Wabasso Association
80. Okeelanta-Aripeka-Terra Ceia Association
81. Homosassa-Weekiwachee-Lacoochee Association
82. Floridana-Basinger Association
83. Salt Water Marsh and Swamp Association
84. Fresh Water Swamp and Marsh Association
85. Blichton-Lochloosa-Kendrick Association
86. Paisley-Bushnell Association
87. Myakka-Pomello Association

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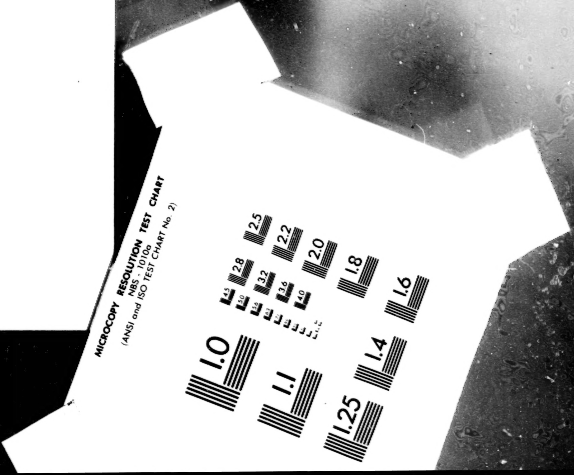
BEST AVAILABLE COPY


MICROCOPY RESOLUTION TEST CHART
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)
2.5
2.2
2.0
1.8
1.6
2.8
3.2
3.6
4.0
4.5
5.0
5.6
1.0
1.1
1.25
1.4